

Q68 Series

70 Watts max | 110 - 277VAC

PRODUCT FEATURE

- Universal Input range from 100VAC~304VAC, 50/60Hz
- Versatile mechanical design maximizes design flexibility.
- Size: XP: TBD / XM:108.3x76.3x30mm (LxWxH)
- Fully potted, suitable for dry and damp location applications
- 4 in 1 Dimming Control plus "ENABLE" input
- UL8750 and CE compliant
- Wide selection of pre-adjusted C/C outputs (factory setting)



ELECTRICAL SPECIFICATIONS

INPUT RANGE	:	100 - 277VAC
POWER FACTOR	:	> 0.92 at 65% to 100% load, 115VAC or 230VAC
INPUT CURRENT	:	0.83 Amps max. at 115VAC
OUTPUT CURRENT REGULATION	:	±3%
PROTECTION	:	OCP, SCP, OLP – Auto Recovery
CONTROL	:	0-10V dimmer; PWM (250-3KHz); Potentiometer; Enable
HOLD UP TIME	:	Half cycle min. at 120VAC and 80% rated load
FREQUENCY	:	47 to 63Hz
INRUSH CURRENT	:	13.0 Amps max. at 230VAC, cold start 25°C
EFFICIENCY	:	87% Typical
MAXIMUM POWER	:	70W
LEAKAGE CURRENT	:	50uA typ.
DIMENSION	:	XP: TBD / XM:108.3 x 76.3 x 30mm (L x W x H)
REGULATION COMPLIANCE	:	UL8750 or EN61347, EN55015, EN61547



ENVIRONMENTAL

OPERATING TEMPERATURE	:	-40 to 50°C, Tc: 85°C
STORAGE TEMPERATURE	:	-40 to + 85°C
HUMIDITY (NON-CONDENSING)	:	5% to 95%
COOLING	:	Convection
VIBRATION FREQUENCY	:	5 to 50Hz
MTBF	:	>100,00 Hours at full load and 25°C ambient conditions (TELC3 – Telcordia SR-332, Issue 3)

WARRANTY

- See [Limited Warranty Policy](#) for more additional information.

MODEL SELECTION

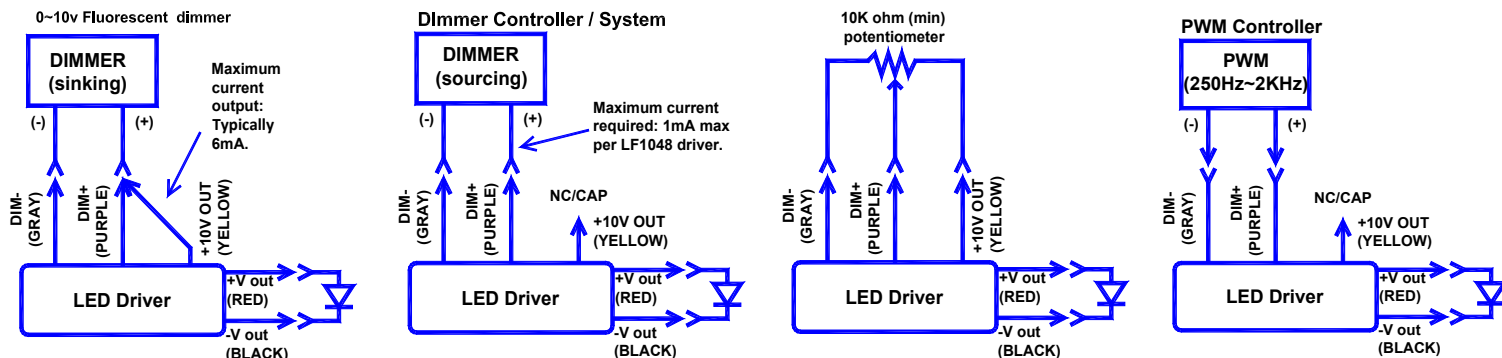
MODEL NUMBER	CONSTANT VOLTAGE MODE			MODEL NUMBER	CONSTANT CURRENT MODE		
	V (DC)	A (MA)	MAX. W		A (MA)	V (DC)	MAX. W
Q68-U24-Xz	24, ±5%	2830	70	Q68-U24-Cyyyy-Xz	3150 ~ 1450	14 ~ 24	70
Q68-U36-Xz	36, ±5%	1880	70	Q68-U30-Cyyyy-Xz	2500 ~ 1200	19 ~ 30	70
Q68-U48-Xz	48, ±5%	1410	70	Q68-U36-Cyyyy-Xz	2080 ~ 950	23 ~ 36	70
Notes: 1. "Xz" is optional: "Blank" = 5VA plastic case; "Xp" = 94V-0 plastic case; "Xm" = stud-mount metal case 2. yyyy = Output current 3. 72VDC output is not UL certified; CV UL is pending.				Q68-U42-Cyyyy-Xz	1780 ~ 810	27 ~ 42	70
				Q68-U48-Cyyyy-Xz	1560 ~ 710	30 ~ 48	70
				Q68-U54-Cyyyy-Xz	1380 ~ 630	34 ~ 54	70
				Q68-U72-Cyyyy-Xz	1050 ~ 480	47 ~ 72	70

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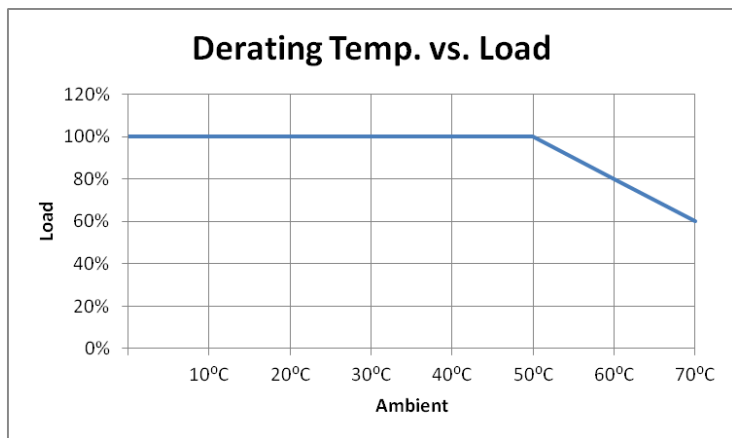
70 Watts max | 110 - 277VAC

Project Name:	
Type:	

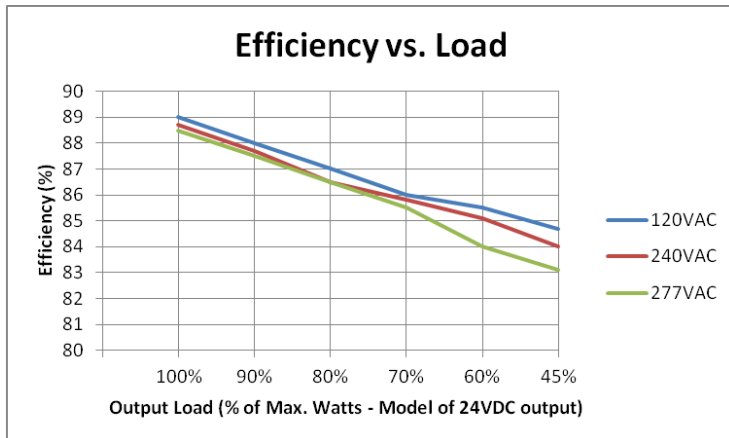
DIMMING WIRING DIAGRAM



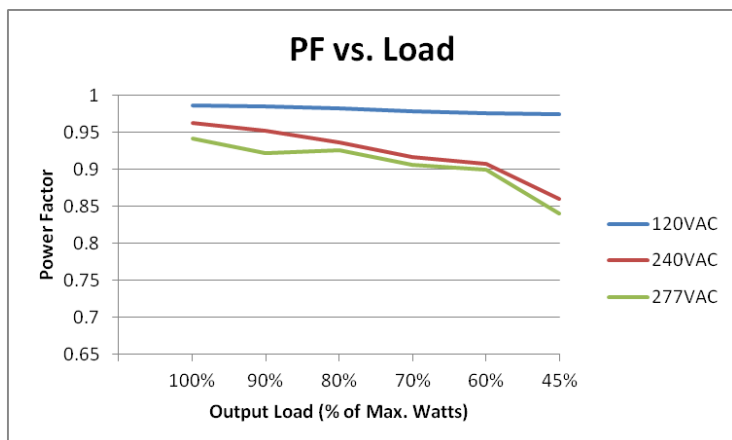
DE-RATING TEMP. VS. LOAD



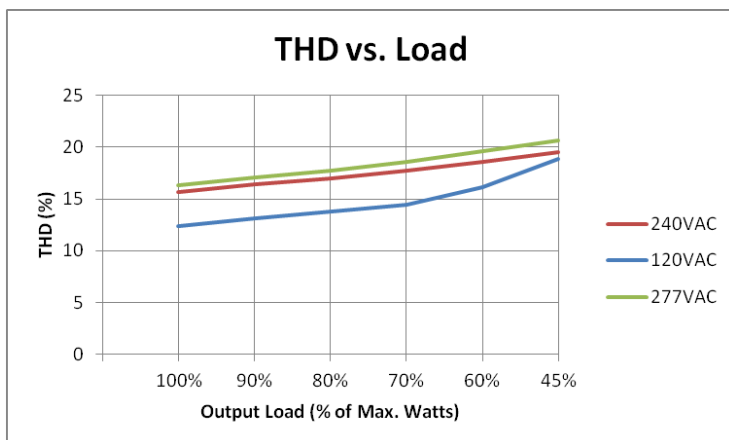
EFFICIENCY VS. LOAD



POWER FACTOR VS. LOAD



THD VS. LOAD

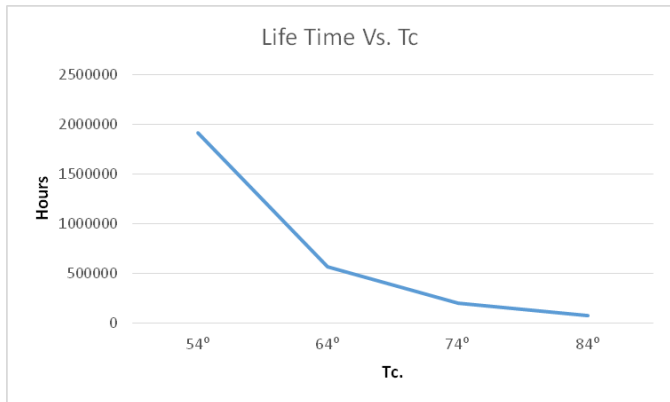


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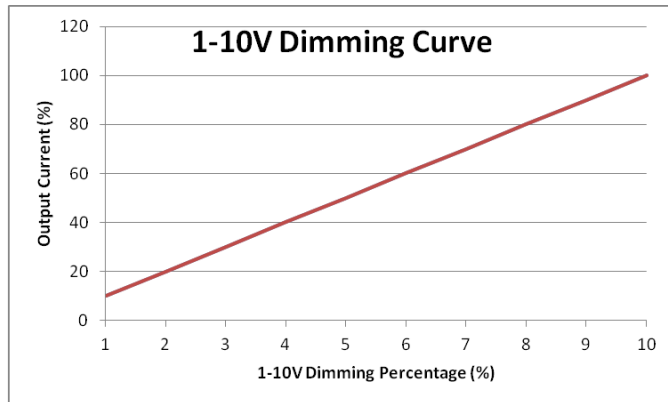
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Project Name:	
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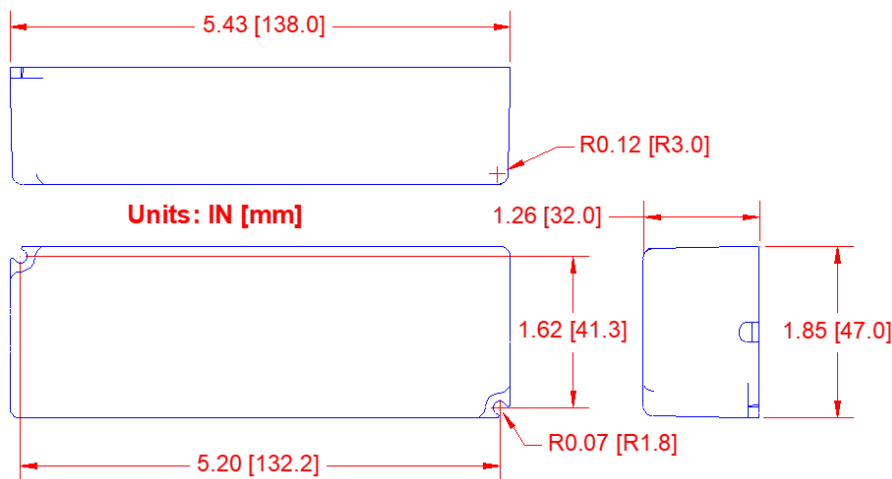
PWM DIMMING CURVE



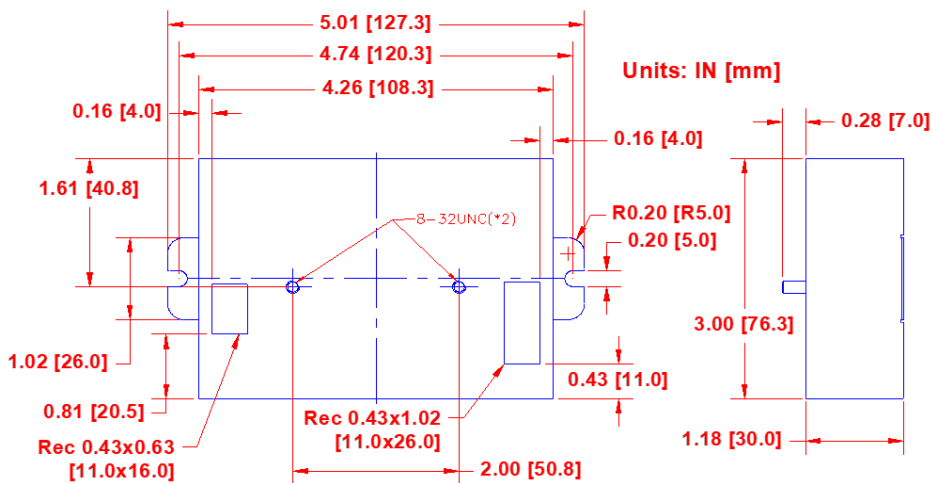
0-10V DIMMING CURVE



MECHANICAL DRAWING Q22-UXX-XP-CYYYY



XP, plastic enclosure



XM, metal stud-mount enclosure (Preliminary)